PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:

EDGAR B. CAHOON ET AL. CASE NO: BB1336 US CNT

APPLICATION NO.: UNKNOWN GROUP ART UNIT: UNKNOWN

FILED: CONCURRENTLY HEREWITH EXAMINER: UNKNOWN

FOR: PLANT PROTEINASES

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO-1449 from the parent application.

Benefit of the earlier filing date of U.S. Patent Application No. 09/501,423, filed February 9, 2000 is claimed under 35 USC 120 for the above-referenced application and only copies of information not previously made of record in the parent are enclosed.

Should any fee be required in connection with the filing of this Information Disclosure Statement, please charge such fee to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company).

Respectfully submitted,

PAUL D. GOLIAN
Attorney for Applicants
Registration No. 42,591
Telephone: 302-992-3749
Facsimile: 302-892-1026

Dated: 2/15/02

Form PTO-1449
(Reproduced)

INFORMATION DISCLOSURE CITATION IN AN APPLICATION
(Use several sheets if necessary)

Docket Number (Optional)	Application Number
BB1336 USNA	UNKNOWN
Applicant	
EDGAR B. CAHOON ET AL.	
Filing Date	**Group Art Unit**
FEBRUARY 9, 2000	UNKNOWN

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES	TRANSLATION NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

		HIROYUKI SORIMACHI ET AL., (1989), J. BIOL. CHEM., VOL. 264:20106-20111, MOLECULAR CLONING OF A NOVEL MAMMALIAN CALCIUM-DEPENDENT PROTEASE DISTINCT FROM BOTH M-AND μ-TYPES
		F. H. WOLFE ET AL., (1989), LIFE SCI., VOL. 45:2093-2101, FAILURE TO FIND CA2+-DEPENDENT PROTEINASE (CALPAIN) ACTIVITY IN A PLANT SPECIES, ELODEA DENSA
		SUSAN KOEHLER ET AL., (1988), PLANT PHYSIOL., VOL. 87:95-103, PURIFICATION AND CHARACTERIZATION OF GIBBERELLIC ACID-INDUCED CYSTEINE ENDOPROTEASES IN BARLEY ALEURONE LAYERS
		SUSAN M. KOEHLER ET AL. (1990), PLANT CELL, VOL. 2:769-783, HORMONAL REGULATION, PROCESSING, AND SECRETION OF CYSTEINE PROTEINASES IN BARLEY ALEURONE LAYERS
		CHIEKO DOMOTO ET AL., (1995), BIOCHIM. BIOPHYS. ACTA, VOL. 1263:241-244, ISOLATION AND CHARACTERIZATION OF TWO DISTINCT CDNA CLONES ENCODING CORN SEED CYSTEINE PROTEINASES
		REGIS GRIMAUD ET AL., (1998), J. BIOL. CHEM., VOL. 273(20):12476-12481, ENZYMATIC AND STRUCTURAL SIMILARITIES BETWEEN THE ESCHERICHIA COLI ATP-DEPENDENT PROTEASES, CLPXP AND CLPAP*
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 1345664, 07-15-1998, I. RICHARD ET AL., MUTATIONS IN THE PROTEOLYTIC ENZYME CALPAIN 3 CAUSE LIMB-GIRDLE MUSCULAR DYSTROPHY TYPE 2A
		ISABELLE RICHARD ET AL., CELL, VOL. 81(1):27-40, (1995), MUTATIONS IN THE PROTEOLYTIC ENZYME CALPAIN 3 CAUSE LIMB-GIRDLE MUSCULAR DYSTROPHY TYPE 2A
		M. FARDEAU ET AL., BRAIN, VOL. 119 (PT 1):295-308, (1996), JUVENILE LIMB-GIRDLE MUSCULAR DYSTROPHY
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 600420, 02-17-1997, U. THEOPOLD ET AL., CALPA, A DROSOPHILA CALPAIN HOMOLOG SPECIFICALLY EXPRESSED IN A SMALL SET OF NERVE, MIDGUT, AND BLOOD CELLS
		ULRICH THEOPOLD ET AL., MOL. CELL BIOL., VOL. 15(2):824-834, (1995), CALPA, A DROSOPHILA CALPAIN HOMOLOG SPECIFICALLY EXPRESSED IN A SMALL SET OF NERVE, MIDGUT, AND BLOOD CELLS

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Reproduced)	Docket Number (Optional)	Application Number
INFORMATION DISCLOSURE CITATION IN AN APPLICATION *(Use several sheets if necessary)*	**BB1336 USNA**	**UNKNOWN**
	Applicant: **EDGAR B. CAHOON ET AL.**	
	Filing Date: **FEBRUARY 9, 2000**	Group Art Unit: **UNKNOWN**

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES	TRANSLATION NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 1079058, 06-18-1999, Y. EMORI ET AL., CALPAIN LOCALIZATION CHANGES IN COORDINATION WITH ACTIN-RELATED CYTOSKELETAL CHANGES DURING EARLY EMBRYONIC DEVELOPMENT OF DROSOPHILA
		YASUFUMI EMORI ET AL., J. BIOL. CHEM., VOL. 269(40):25137-25142, (1994), CALPAIN LOCALIZATION CHANGES IN COORDINATION WITH ACTIN-RELATED CYTOSKELETAL CHANGES DURING EARLY EMBRYONIC DEVELOPMENT OF DROSOPHILA
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 1706260, 11-01-1997, C. DOMOTO ET AL., ISOLATION AND CHARACTERIZATION OF TWO DISTINCT CDNA CLONES ENCODING CORN SEED CYSTEINE PROTEINASES
		CHRISTIAN CHEVALIER ET AL., PLANT MOL. BIOL., VOL. 28(3):473-485, (1995), MOLECULAR CLONING AND CHARACTERIZATION OF SIX CDNAS EXPRESSED DURING GLUCOSE STARVATION IN EXCISED MAIZE (ZEA MAYS L.) ROOT TIPS
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 2511691, 10-10-1997, V. SENYUK ET AL., ISOLATION OF CDNA CLONE ENCODING CYSTEINE PROTEINASE (CP2) FROM COTYLEDON-SPECIFIC CDNA LIBRARY OF GERMINATING KIDNEY BEAN SEEDS
		CLAUDIA BECKER ET AL., PLANT MOL. BIOL., VOL. 26(4):1207-1212, (1994), PCR CLONING AND EXPRESSION ANALYSIS OF CDNAS ENCODING CYSTEINE PROTEINASES FROM GERMINATING SEEDS OF VICIA SATIVA L.
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 399213, 02-01-1996, S. GOTTESMAN ET AL., CONSERVATION OF THE REGULATORY SUBUNIT FOR THE CLP ATP-DEPENDENT PROTEASE IN PROKARYOTES AND EUKARYOTES
		SUSAN GOTTESMAN ET AL., PNAS, VOL. 87(9):3513-3517, (1990), CONSERVATION OF THE REGULATORY SUBUNIT FOR THE CLP ATP-DEPENDENT PROTEASE IN PROKARYOTES AND EUKARYOTES
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 399212, 02-01-1996, S. GOTTESMAN ET AL., CONSERVATION OF THE REGULATORY SUBUNIT FOR THE CLP ATP-DEPENDENT PROTEASE IN PROKARYOTES AND EUKARYOTES
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 3023500, 02-15-2000, A. K. CLARKE ET AL.
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 3023519, 07-15-1998, D. SALMI ET AL.

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Reproduced)	Docket Number (Optional)	Application Number
INFORMATION DISCLOSURE CITATION IN AN APPLICATION *(Use several sheets if necessary)*	**BB1336 USNA**	**UNKNOWN**
	Applicant: **EDGAR B. CAHOON ET AL.**	
	Filing Date: **FEBRUARY 9, 2000**	Group Art Unit: **UNKNOWN**

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES	TRANSLATION NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 1705930, 07-15-1998, T. KANEKO ET AL., SEQUENCE ANALYSIS OF THE GENOME OF THE UNICELLULAR CYANOBACTERIUM SYNECHOCYSTIS SP. STRAIN PCC6803. I. SEQUENCE FEATURES IN THE 1 MB REGION FROM MAP POSITIONS 64% TO 92% OF THE GENOME
		TAKAKAZU KANEKO ET AL., DNA RES., VOL. 2(4):153-166, (1995), SEQUENCE ANALYSIS OF THE GENOME OF THE UNICELLULAR CYANOBACTERIUM SYNECHOCYSTIS SP. STRAIN PCC6803. I. SEQUENCE FEATURES IN THE 1 MB REGION FROM MAP POSITIONS 64% TO 92% OF THE GENOME
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 5360593, 08-05-1999, K. NAKABAYASHI ET AL., IDENTIFICATION OF CLP GENES EXPRESSED IN SEQUENCING ARABIDOPSIS LEAVES
		KAZUMI NAKABAYASHI ET AL., PLANT CELL PHYS., VOL. 40(5):504-514, (1999), IDENTIFICATION OF CLP GENES EXPRESSED IN SENESCING ARABIDOPSIS LEAVES
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 4887543, 05-24-1999, A. K. CLARKE, CDNA SEQUENCE FOR A NUCLEAR-ENCODED CLPP PROTEIN FROM ARABIDOPSIS THALIANA
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 6685315, 02-15-2000, C. INDORATO ET AL.
		GENBANK ACESSION NUMBER AQ258994 CREATED 10/23/1998
		GENBANK ACESSION NUMBER AQ255743 CREATED 10/23/1998
		GENBANK ACESSION NUMBER AF022909 CREATED 03/02/1998
		GENBANK ACESSION NUMBER AA754642 CREATED 01/20/1998
		GENBANK ACESSION NUMBER AU056251 CREATED 04/29/1999
		GENBANK ACESSION NUMBER AI461500 CREATED 03/09/1999
		GENBANK ACESSION NUMBER AU056252 CREATED 04/29/1999
		GENBANK ACESSION NUMBER AI748449 CREATED 06/22/1999
		GENBANK ACESSION NUMBER AI930897 CREATED 07/30/1999
		SAMBROOK ET AL. MOLECULAR CLONING: A LABORATORY MANUAL (1989) TABLE OF CONTENTS

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.